Proton Cyclotron Waves at 1AU: 1SEE-3

B. T. Tsurutani, E. J. Smith, C.M. Ho, N. Murphy and J. M. Arballo (All at: Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA 91 109; 818 354-7559) G. M. Mason and L. C. 'J'an (Both at: Department of Physics, University of Maryland, College Park, MD 20742)

Proton cyclotron waves have been detected in the high resolution magnetic field data from 1 SI3E-3 (1 AU from the Sun). At the present time, the source of the pickup ions is uncertain. Possibilities arc: hydrogen from the Earth, neutrals associated with solar coronal mass 4. SPA/SI I cicctions or interstellar neutrals. We will examine the wave amplitude and frequency of occurrence dependence on the spacecraft 5. a) radial distance from the Earth just after the launch and the ISEE-Suninterstellar source longitudinal angle to attempt to resolve these 5 b) questions.

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- 2. 001325224
- 3 (a) B. "J'. Tsurutani Jet Propulsion 1 aboratory MS 169-506 4800 Oak Grove Drive Pasadena, CA 91109
 - (b) Tc].818 354-7559
 - (c) I'ax818 354-8895

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